

Recombinant Human coatomer protein complex, subunit epsilon, His-tagged

Cat. No. COPE-649H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	COPE, 1-308aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-308 a.a.
Description	COPE is an epsilon subunit of coatomer protein complex. Coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles. It is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. Coatomer complex consists of at least the alpha, beta, beta", gamma, delta, epsilon and zeta subunits. Alternatively spliced transcript variants encoding different isoforms have been identified. Recombinant human COPE protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid, In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT
Molecular Mass	36.9 kDa (331aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAPPAPG PASGGSGEVD ELFDVKNAFY IGSYQQCINE AQRVKLSSPE RDVERDVFLY RAYLAQRKFG VVLDEIKPSS

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APELQAVRMF ADYLAHESRR DSIVAELDRE MSRSVDVTNT TFLMAASIY
 LHDQNPDAAL RALHQGDSLE CTAMTVQILL KLDRLDLARK ELKRMQDLDE
 DATLTQLATA WWSLATGGEK LQDAYYIFQE MADKCSPTLL LLNGQAACHM
 AQGRWEAAEG LLQEALDKDS GYPETLVNLI VLSQHLGKPP EVTNRYLSQL
 KDAHRSHPI KEYQAKENDF DRLVLQYAPS A

Purity >90 % by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name COPE coatomer protein complex, subunit epsilon [Homo sapiens]

Official Symbol COPE

Synonyms COPE; coatomer protein complex, subunit epsilon; coatomer subunit epsilon; epsilon COP; epsilon coat protein; epsilon-coat protein; coatomer epsilon subunit; epsilon-COP; FLJ13241;

Gene ID 11316

mRNA Refseq NM_007263

Protein Refseq NP_009194

MIM 606942

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UniProt ID	O14579
Chromosome Location	19p13.11
Pathway	COPI Mediated Transport, organism-specific biosystem; Golgi to ER Retrograde Transport, organism-specific biosystem; Membrane Trafficking, organism-specific biosystem;
Function	binding; structural molecule activity;

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